

## **Photovoltaic and Space Environments Branch (RPV)**

Conducts research on advanced space solar cells, solar array concepts and solar array components to increase array power per unit mass (watts per kilogram), lower array costs (dollar per watt) and increase array operating lifetimes for near earth, planetary surface, inner solar system and outer solar system operation. Develops advanced technology for high performance solar array and conducts space qualification flight tests of such technology. Develops and verifies, through ground and flight testing, an improved understanding of space solar array environmental interactions for all space missions of interest to NASA, DOD and commercial mission planners. Responsible for operating an ISO-certified space solar cell calibration capability and facility for the Nation and the international space solar cell community.

